IN THE CLAIMS:

Claim was previously cancelled, claim 5 has been amended, and claims 10-27 have been Cancelled. Applicants add new claims 34-40 which correspond to original claims 10-16. Please note that all claims currently pending and under consideration in the referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Cancelled)

2. (Previously presented) The method according to claim 5, further comprising:
designing a layout of a document;
preparing an image of the layout of the document for printing; and
applying ink to the medium to form the image.

3. (Original) The method according to claim 2, wherein the step of applying the fixer to the medium is done before applying the ink to the medium.

4. (Original) The method according to claim 2, wherein the step of applying the ink to the medium is done before applying the fixer to the medium.

5. (Currently amended) A method for printing a pattern on a medium, the method comprising:
assigning a pattern to a medium, wherein the pattern defines coordinates of a portion of the medium;
applying a fixer to the portion of the medium in the pattern, wherein the fixer includes an infrared marker or an ultraviolet marker;
applying an ink to a different portion of the medium[[;]] ~~and~~

~~mixing an infrared marker or an ultraviolet marker with the fixer.~~

6. (Previously presented) A method for printing a pattern on a medium, the method comprising:

assigning a pattern to a medium, wherein the pattern defines coordinates of a portion of the medium;

applying a fixer to the portion of the medium in the pattern; and

applying an ink to a different portion of the medium, wherein the fixer is capable of fluorescing or acting as an attenuating filter of fluorescence when exposed to a predetermined wavelength of electromagnetic radiation.

7. (Original) The method according to claim 2, further comprising:

assigning a 1-bit plane of data to the image, wherein the 1-bit plane of data corresponds to the pattern.

8. (Original) The method according to claim 2, wherein preparing the image of the layout of the document for printing comprises configuring software associated with a computer to prepare the image of the layout of the document for printing.

9. (Original) The method according to claim 2, wherein preparing the image of the layout of the document for printing comprises configuring firmware to prepare the image of the layout of the document for printing.

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)
20. (Cancelled)
21. (Cancelled)
22. (Cancelled)
23. (Cancelled)
24. (Cancelled)
25. (Cancelled)
26. (Cancelled)
27. (Cancelled)

28. (Previously presented) The method according to claim 6, further comprising:
designing a layout of a document;
preparing an image of the layout of the document for printing; and
applying ink to the medium to form the image.

29. (Previously presented) The method according to claim 28, wherein the step of applying the fixer to the medium is done before applying the ink to the medium.

30. (Previously presented) The method according to claim 28, wherein the step of applying the ink to the medium is done before applying the fixer to the medium.

31. (Previously presented) The method according to claim 28, further comprising:
assigning a 1-bit plane of data to the image, wherein the 1-bit plane of data corresponds to the pattern.

32. (Previously presented) The method according to claim 28, wherein preparing the

image of the layout of the document for printing comprises configuring software associated with a computer to prepare the image of the layout of the document for printing.

33. (Previously presented) The method according to claim 28, wherein preparing the image of the layout of the document for printing comprises configuring firmware to prepare the image of the layout of the document for printing.

34. (New) A method for calculating a position of an object in relation to a medium, the method comprising:

applying a coordinate pattern to a medium, wherein the coordinate pattern comprises a fixer capable of fluorescing when subjected to a predetermined wavelength of electromagnetic radiation;

projecting the predetermined wavelength onto the pattern;

detecting a presence or an absence of emittance from the fixer in the coordinate pattern on the medium excited by the wavelength; and

responsive to the presence or the absence of the emittance, calculating a position of the object in relation to the medium.

35. (New) The method according to claim 10, wherein calculating the position of the object in relation to the medium comprises calculating a position of a writing instrument in relation to the medium.

36. (New) The method according to claim 10, further comprising:

designing a layout of a document;

preparing an image of the document for printing; and

applying ink to the medium to form the image.

37. (New) The method according to claim 10, wherein projecting the predetermined wavelength of electromagnetic radiation onto the pattern comprises directing an ultraviolet or an

infrared wavelength onto the pattern.

38. (New) The method according to claim 10, wherein detecting the presence or the absence of the emittance from the fixer in the coordinate pattern comprises positioning a sensor in relation to the coordinate pattern such that the sensor collects the presence or the absence of the emittance from the coordinate pattern.

39. (New) The method according to claim 10, further comprising:
writing on the medium with a writing instrument; and
electronically storing the position of the writing instrument in relation to the medium.

40. (New) The method according to claim 15, wherein writing on the medium and electronically storing the position occur substantially simultaneously.